

Structure attributes must be viewed using STN Express query preparation.

=> s 11 full
L3 260 SEA SSS FUL L1

=> file ca

=> s 13
L4 12 L3

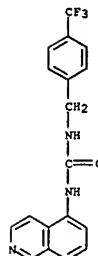
=> d ibib abs fhitstr 1-12

L4 ANSWER 1 OF 12 CA COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 143:241808 CA
 TITLE: A-425619 [1-isoquinolin-5-yl-3-(4-trifluoromethylbenzyl)urea], a novel transient receptor potential type VI receptor antagonist, relieves pathophysiological pain associated with inflammation and tissue injury in rats

AUTHOR(S): Honore, Priscia; Wismer, Carol T.; Mikusa, Joe; Zhu, Chang Z.; Zhong, Chengmin; Gauvin, Donna M.; Gomtsyan, Arthur; El Kouhen, Rachid; Lee, Chih-Hung; Marsh, Kennan; Sullivan, James P.; Faltynek, Connie R.; Jarvis, Michael F.

CORPORATE SOURCE: Neuroscience Research, Global Pharmaceutical Research and Development, Abbott Laboratories, Abbott Park, IL, USA
 SOURCE: Journal of Pharmacology and Experimental Therapeutics (2005), 314(1), 410-421
 CODEN: JPETAB; ISSN: 0022-3565
 PUBLISHER: American Society for Pharmacology and Experimental Therapeutics
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB The vanilloid receptor 1 (VR1, TRPV1), which is a member of the transient receptor potential (TRP) superfamily, is highly localized on peripheral and central processes of nociceptive afferent fibers. Activation of TRPV1 contributes to the pronociceptive effects of capsaicin, protons, heat, and various endogenous lipid agonists such as anandamide and N-arachidonoyl-dopamine. A-425619 is a novel potent and selective antagonist at both human and rat TRPV1 receptors. In vivo, A-425619 dose dependently reduced capsaicin-induced mech. hyperalgesia (ED50 = 45 μ mol/kg p.o.). A-425619 was also effective in models of inflammatory pain and postoperative pain. A-425619 potently reduced complete Freund's adjuvant-induced chronic inflammatory pain after oral administration (ED50 = 40 μ mol/kg p.o.) and was also effective after either i.t. administration or local injection into the inflamed paw. Furthermore, A-425619 maintained efficacy in the postoperative pain model after twice daily dosing p.o. for 5 days. A-425619 also showed partial efficacy in models of neuropathic pain. A-425619 did not alter motor performance at the highest dose tested (300 μ mol/kg p.o.). Taken together, the present data indicate that A-425619, a potent and selective antagonist of TRPV1 receptors, effectively relieves acute and chronic inflammatory pain and postoperative pain.
 IT 581809-67-8, A 425619
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (A-425619, a novel transient receptor potential type VI receptor antagonist, relieves pathophysiol. pain associated with inflammation and tissue injury in rats)
 RN 581809-67-8 CA
 CN Urea, N-5-isoquinolinyl-N'-(4-(trifluoromethyl)phenyl)methyl- (9CI)
 (CA INDEX NAME)

L4 ANSWER 1 OF 12 CA COPYRIGHT 2005 ACS on STN (Continued)
 INDEX NAME)



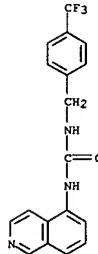
REFERENCE COUNT: 44 THERE ARE 44 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

L4 ANSWER 2 OF 12 CA COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 143:241807 CA
 TITLE: A-425619 [1-isoquinolin-5-yl-3-(4-trifluoromethylbenzyl)urea], a novel and selective transient receptor potential type VI receptor antagonist, blocks channel activation by vanilloids, heat, and acid

AUTHOR(S): El Kouhen, Rachid; Surowy, Carol S.; Bianchi, Bruce R.; Neelands, Torben R.; McDonald, Heath A.; Niforatos, Wende; Gomtsyan, Arthur; Lee, Chih-Hung; Honore, Priscia; Sullivan, James P.; Jarvis, Michael F.; Faltynek, Connie R.

CORPORATE SOURCE: Neuroscience Research, Global Pharmaceutical Research and Development, Abbott Laboratories, Abbott Park, IL, USA
 SOURCE: Journal of Pharmacology and Experimental Therapeutics (2005), 314(1), 400-409
 CODEN: JPETAB; ISSN: 0022-3565
 PUBLISHER: American Society for Pharmacology and Experimental Therapeutics
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB The vanilloid receptor transient receptor potential type VI (TRPV1) integrates responses to multiple stimuli, such as capsaicin, acid, heat, and endovanilloids and plays an important role in the transmission of inflammatory pain. Here, we report the identification and *in vitro* characterization of A-425619, a novel, potent, and selective TRPV1 antagonist. A-425619 was found to potently block capsaicin-evoked increases in intracellular calcium concns. in HEK293 cells expressing recombinant human TRPV1 receptors (IC50 = 5 nM). A-425619 showed similar potency (IC50 = 3-4 nM) to block TRPV1 receptor activation by anandamide and N-arachidonoyl-dopamine. Electrophysiol. expts. showed that A-425619 also potently blocked the activation of native TRPV1 channels in rat dorsal root ganglion neurons (IC50 = 9 nM). When compared with other known TRPV1 antagonists, A-425619 exhibited superior potency in blocking both native and phorbol ester-sensitized TRPV1 receptors. Like capsaizpine, A-425619 demonstrated competitive antagonism (pA2 = 2.5 nM) of capsaicin-evoked calcium flux. Moreover, A-425619 was 25- to 50-fold more potent than capsaizpine in blocking TRPV1 activation. A-425619 showed no significant interaction with a wide range of receptors, enzymes, and ion channels, indicating a high degree of selectivity for TRPV1 receptors. These data show that A-425619 is a structurally novel, potent, and selective TRPV1 antagonist.
 IT 581809-67-8, A 425619
 RL: PAC (Pharmacological activity); BIOL (Biological study)
 (A-425619 as a potent and selective capsaicin receptor type VR1 antagonist)
 RN 581809-67-8 CA
 CN Urea, N-5-isoquinolinyl-N'-(4-(trifluoromethyl)phenyl)methyl- (9CI)
 (CA INDEX NAME)

L4 ANSWER 2 OF 12 CA COPYRIGHT 2005 ACS on STN (Continued)

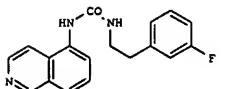


REFERENCE COUNT: 33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

L4 ANSWER 3 OF 12 CA COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 142:481963 CA
 TITLE: Preparation of used azabicyclic compounds that
 inhibit vanilloid receptor subtype 1 (VR1) receptor
 INVENTOR(S): Lee, Chih-Hung; Bayburt, Erol K.; DiDomenico,
 Stanley; Drizin, Irene; Gomtsyan, Arthur R.; Koenig, John R.;
 Perner, Richard J.; Schmidt, Robert G.; Turner, Sean
 C.; Jinkerson, Tammie K.; Zheng, Guo Zhu
 PATENT ASSIGNEE(S): USA
 SOURCE: U.S. Pat. Appl. Publ., 94 pp.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005113576	A1	20050526	US 2004-911019	20040804
PRIORITY APPLN. INFO.:			US 2003-492528P	P 20030805

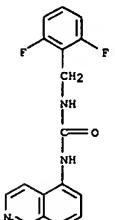
OTHER SOURCE(S): MARPAT 142:481963
 GI



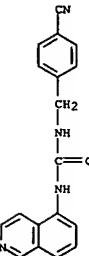
AB Azabicyclic compds., such as R-X5-C(:Z1)-Z2-L-R9 (R = substituted or unsubstituted azabicyclic moiety, such as 5-isouquinoliny, 4-imidazolyl, 4-indolyl or 5-cinnolinyl; X5 = -N(R8a)-, -C(R8a)(R8b)-; Z1 = O, NH, S; 22 = bond, -NH-, -O-; L = alkylene, alkenylene, alkynylene, cycloalkylene; R8a = H, alkyl; R8b = H, OH, halogen, alkoxy, alkoxycarbonylalkyl, alkylcarbonyloxy, alkylsulfonyloxy; R9 = aryl), were prepared for use in pharmaceutical compds. as VR1 antagonists for treating a disorder wherein the disorder is ameliorated by inhibiting a VR1 receptor, such as pain, inflammatory thermal hyperalgesia, urinary incontinence, and bladder overactivity. Thus, N-[2-(3-fluorophenyl)ethyl]-N'-5-isouquinolin-5-ylurea (I) was prepared starting from 5-isouquinolinamine, Cl₃COCl and F-3-C6H4(CH₂)₂NH₂ via urea formation in 65% yield refluxing F-3-C6H4(CH₂)₂NH₂ and 2,2,2-trichloro-N-5-isouquinolinylacetamide in MeCN using DBU. The prepared azabicyclic compds. were tested in vivo to determine their antinociceptive effect in male mice.

IT 581810-26-6P
 RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic

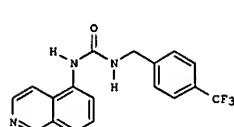
L4 ANSWER 4 OF 12 CA COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 142:456241 CA
 TITLE: Design and synthesis of Rho kinase inhibitors (I).
 [Erratum to document cited in CA141:046759]
 AUTHOR(S): Takami, Atsuya; Iwakubo, Masayuki; Okada, Yuji;
 Kawata, Takehisa; Odai, Hideharu; Takahashi, Nobuaki;
 Shindo, Kazutoshi; Kimura, Kaname; Tagami,
 Yoshimichi;
 Miyake, Mika; Fukushima, Kayoko; Inagaki, Masaki;
 Amano, Mutsumi; Kubo, Kozi; Iijima, Hiroshi
 CORPORATE SOURCE: Pharmaceutical Research Laboratories, Kirin Brewery
 Co. Ltd, Takasaki-shi, Gunma, 370-1295, Japan
 SOURCE: Bioorganic & Medicinal Chemistry (2004), 12(23), 6317
 CODEN: BMCECP; ISSN: 0968-0896
 PUBLISHER: Elsevier Ltd.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB A sentence is added in the Acknowledgements section: "This work was supported by the grant from the Pharmaceuticals and Medical Devices Agency (PMDA)".
 IT 709046-05-9P
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
 (design and synthesis of Rho kinase inhibitors (Erratum))
 RN 709046-05-9 CA
 CN Urea, N-[(2,6-difluorophenyl)methyl]-N'-5-isouquinolinyl- (9CI) (CA INDEX NAME)



L4 ANSWER 3 OF 12 CA COPYRIGHT 2005 ACS on STN (Continued)
 preparation); THU (Therapeutic use); BIOL (Biological study); PREP
 (Preparation); RACT (Reactant or reagent); USES (Uses)
 (prepn. of fused azabicyclic compds. that inhibit vanilloid subtype 1
 (VR1) receptor)
 RN 581810-26-6 CA
 CN Urea, N-[(4-cyanophenyl)methyl]-N'-5-isouquinolinyl- (9CI) (CA INDEX NAME)

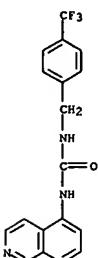


L4 ANSWER 5 OF 12 CA COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 142:240400 CA
 TITLE: Novel transient receptor potential vanilloid 1 receptor antagonists for the treatment of pain: Structure-activity relationships for ureas with quinoline, isoquinoline, quinazoline, phthalazine, quinoxaline, and cinnoline moieties
 AUTHOR(S): Gomtsyan, Arthur; Bayburt, Erol K.; Schmidt, Robert G.; Zheng, Guo Zhu; Perner, Richard J.; DiDomenico, Stanley; Koenig, John R.; Turner, Sean; Jinkerson, Tammie; Drizin, Irene; Hannick, Steven M.; Macri, Bryan S.; McDonald, Heath A.; Honore, Priscia; Wismer, Carol T.; Marsh, Kennan C.; Wetter, Jill; Stewart, Kent D.; Ole, Tetsuro; Jarvis, Michael F.; Surrowy, Carol S.; Faltynek, Connie R.; Lee, Chih-Hung
 CORPORATE SOURCE: Global Pharmaceutical Research and Development, Abbott
 SOURCE: Laboratories, Abbott Park, IL, 60064, USA
 JOURNAL: Journal of Medicinal Chemistry (2005), 48(3), 744-752
 CODEN: JMCMAR; ISSN: 0022-2623
 PUBLISHER: American Chemical Society
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI



AB Transient receptor potential vanilloid 1 (TRPV1) receptor antagonists with various bicyclic heteroarom. pharmacophores were synthesized, and their in vitro activity in blocking capsaicin activation of TRPV1 was assessed. On the basis of the contribution of these pharmacophores to the in vitro potency, they were ranked in the order of 5-isouquinoline > 8-quinoline > 8-quinazoline > 8-isouquinoline > cinnoline > phthalazine > quinoxaline = 5-quinoline. The 5-isouquinoline-containing compound I (hTRPV1 IC₅₀ = 4 nM) exhibited 46% oral bioavailability and in vivo activity in animal models of visceral and inflammatory pain. Pharmacokinetic and pharmacol. properties of I were substantial improvements over the profile of the high-throughput screening hit (hTRPV1 IC₅₀ = 22 nM), which was not efficacious in animal pain models and was not orally bioavailable.
 IT 581809-67-6P
 RL: PAC (Pharmacological activity); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
 (preparation, pharmacokinetics, transient receptor potential vanilloid 1

L4 ANSWER 5 OF 12 CA COPYRIGHT 2005 ACS on STN (Continued)
 receptor affinity, and structure-activity relationship of
 isoquinolinyl trifluoromethylbenzyl urea)
 RN 581809-67-8 CA
 CN Urea, N-5-isoquinolinyl-N'-(4-(trifluoromethyl)phenyl)methyl- (9CI)
 (CA INDEX NAME)



REFERENCE COUNT: 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 6 OF 12 CA COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 141:174087 CA
 TITLE: Preparation of fused azabicyclic compounds that inhibit vanilloid receptor subtype 1 (VR1)
 INVENTOR(S): Lee, Chih-Hung; Bayburt, Erol K.; Didomenico, Stanley;

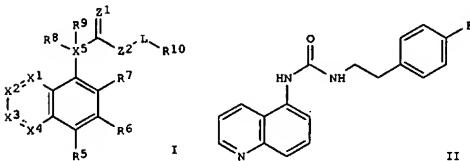
Drizin, Irene; Gomtayan, Arthur R.; Koenig, John R.; Perner, Richard J.; Schmidt, Robert G.; Turner, Sean C.; White, Tammie K.; Zheng, Guo Zhu
 Abbott Laboratories, USA
 U.S. Pat. Appl. Publ., 93 pp., Cont.-in-part of U.S. Ser. No. 364,210.
 CODEN: USXXCO

DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 3
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004157849	A1	20040812	US 2003-634678	20030805
US 6933311	B2	20050823		
US 2003150198	A1	20030821	US 2003-364210	20030211
WO 2005016890	A1	20050224	WO 2004-US25109	20040804
W: AS, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GR, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GR, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CA, GA, GR, GQ, GW, ML, MR, NE, SN, TD, TG				
PRIORITY APPLN. INFO.:			US 2003-364210	A2 20030211
			US 2002-358220P	P 20020220
			US 2003-634678	A 20030805

OTHER SOURCE(S): MARPAT 141:174087
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L4 ANSWER 6 OF 12 CA COPYRIGHT 2005 ACS on STN (Continued)

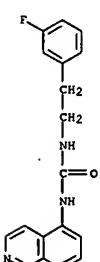


AB Compds. of formula I [X1-X5 = (substituted) N, (substituted) CH; Z1 = O, NH, S; Z2 = bond, NH, O; L = alkylene, cycloalkylene, piperazinediyl, etc.; R5-R9 = H, alkyl, alkenyl, alkoxy, carboxy, cycloalkyl, formyl, mercapto, etc.; R10 = H, aryl, cycloalkyl, heterocyclic] are prepared as vanilloid receptor subtype 1 (VR1) antagonists that are useful in

treating pain, inflammatory thermal hyperalgesia, urinary incontinence and bladder overactivity. Thus, II was prepared from 5-aminoisoquinoline and 2-(3-fluorophenyl)ethylamine. The prepared compds. were found to be antagonists of VR1 with IC50 of 0.1 nM to 1000 nM.

IT 581809-65-6P
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of fused azabicyclic compds. as vanilloid receptor 1 inhibitors)

RN 581809-65-6 CA
 CN Urea, N-(2-(3-fluorophenyl)ethyl)-N'-5-isoquinolinyl- (9CI) (CA INDEX NAME)



L4 ANSWER 7 OF 12 CA COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 141:157010 CA
 TITLE: N-Isoquinolin-5-yl-N'-aralkyl-urea and -amide antagonists of human vanilloid receptor 1
 AUTHOR(S): Jetter, Michele C.; Youngman, Mark A.; McNally, James J.; Zhang, Sui-Po; Dubin, Adrienne E.; Nasser, Nadia; Dax, Scott L.

CORPORATE SOURCE: Johnson & Johnson Pharmaceutical Research and Development, Spring House, PA, 19477, USA

SOURCE: Bioorganic & Medicinal Chemistry Letters (2004),

14(12), 3053-3056
 CODEN: BMCLB8; ISSN: 0960-894X

PUBLISHER: Elsevier Science B.V.

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 141:157010

AB Starting from a low micromolar agonist lead identified by high-throughput screening, series of N-isooquinolin-5-yl-N'-aralkyl ureas and analogous amides were developed as potent antagonists of human vanilloid receptor 1 (VR1). The synthesis and structure-activity relationships (SAR) of the series are described.

IT 581809-67-8P
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

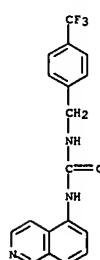
(preparation of n-isooquinolin-5-yl-N'-aralkyl-urea and -amide including

their structure-activity relationships as antagonists of human vanilloid receptor 1)

RN 581809-67-8 CA

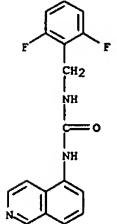
CN Urea, N-5-isoquinolinyl-N'-(4-(trifluoromethyl)phenyl)methyl- (9CI)

(CA INDEX NAME)



REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 8 OF 12 CA COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 141:46759 CA
 TITLE: Design and synthesis of Rho kinase inhibitors (I)
 AUTHOR(S): Takami, Atsuya; Iwakubo, Masayuki; Okada, Yuji;
 Kawata, Takehisa; Odai, Hideharu; Takahashi, Nobuaki;
 Shindo, Kazutoshi; Kimura, Kaname; Tagami,
 Yoshimichi;
 Miyake, Mika; Fukushima, Kayoko; Inagaki, Masaki;
 Amano, Mutsumi; Kalbuchi, Kozo; Iijima, Hiroshi
 CORPORATE SOURCE: Pharmaceutical Research Laboratories, Kirin Brewery
 Co. Ltd., Gunma, Takasaki-shi, 370-1295, Japan
 SOURCE: Bioorganic & Medicinal Chemistry (2004), 12(9),
 2115-2137
 CODEN: BMCECP; ISSN: 0968-0896
 PUBLISHER: Elsevier Ltd.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 141:46759
 AB Several structurally unrelated scaffolds of the Rho kinase inhibitor were designed using pharmacophore information obtained from the results of a high-throughput screening and structural information from a homol. model of Rho kinase. A docking simulation using the ligand-binding pocket of the Rho kinase model helped to comprehensively understand and to predict the structure-activity relationship of the inhibitors. This understanding was useful for developing new Rho kinase inhibitors of higher potency and selectivity. We identified several potent platforms for developing the Rho kinase inhibitors, namely, pyridine, 1H-indazole, isoquinoline, and phthalimide.
 IT 709046-03-9
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
 (design and synthesis of Rho kinase inhibitors)
 RN 709046-03-9 CA
 CN Urea, N-[(2,6-difluorophenyl)methyl]-N'-5-isoquinolinylyl- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 32 THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS

L4 ANSWER 9 OF 12 CA COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 140:111290 CA
 TITLE: Preparation of naphthalenylureas, quinolinylureas, and isoquinolinylureas as modulators of vanilloid VR1 receptor ligands.
 INVENTOR(S): Codd, Ellen; Dax, Scott L.; Jetter, Michele; McDonnell, Mark; McNally, James J.; Youngman, Mark
 PATENT ASSIGNEE(S): Janssen Pharmaceuticals N.V., Belg.
 SOURCE: PCT Int. Appl., 205 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004007459	A2	20040122	WO 2003-US21518	20030710
WO 2004007459	A3	20040318		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, 2M, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GE, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 2004157865	A1	20040812	US 2003-616579	20030710
PRIORITY APPN. INFO.:			US 2002-395728P	P 20020712
		US 2002-395951P		P 20020715

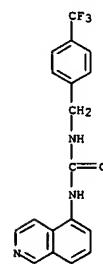
OTHER SOURCE(S): MARPAT 140:111290
 GI



AB Title compds. [I; R1, R2 = H, OH, halo, (substituted) alkyl, alkoxy, alkylthio, cycloalkyl, cycloalkoxy, etc.; R3 = H, OH, F, Cl, NO2, amino; L = (substituted) alkylene; R4, R5 = H, alkyl; R6 = (substituted) ph, naphthyl, heteroaryl, cycloalkyl, heterocyclyl; X = CH, N, NO; Y = C, N; Z = O, S], were prepared as potent antagonists or agonists of VR1 which are useful for the treatment and prevention of inflammatory and other pain.

L4 ANSWER 9 OF 12 CA COPYRIGHT 2005 ACS on STN (Continued)
 RECORD, ALL CITATIONS AVAILABLE IN THE RE
 FORMAT

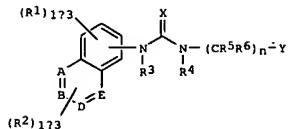
L4 ANSWER 9 OF 12 CA COPYRIGHT 2005 ACS on STN (Continued)
 Thus, (1-chloroisquinolin-5-yl)carbamic acid Ph ester and 4-trifluoromethylbenzylamine were stirred overnight in DMSO to give 61% 1-(1-chloroisquinolin-5-yl)-3-(4-trifluoromethylbenzyl)urea. I bound to VR1 receptors with $K_i = 0.10-100,000$ nM.
 IT 581809-67-8
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of naphthalenylureas, quinolinylureas, and isoquinolinylureas as modulators of vanilloid VR1 receptor ligands)
 RN 581809-67-8 CA
 CN Urea, N-5-isoquinolinylyl-N'-(4-(trifluoromethyl)phenyl)methyl- (9CI) (CA INDEX NAME)



L4 ANSWER 10 OF 12 CA COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 139:292162 CA
 TITLE: Heteroaromatic ureas as vanilloid receptor (VR1) modulators, in particular antagonists, for treating pain and/or inflammation
 INVENTOR(S): Brown, Rebecca Elizabeth; Doughty, Victoria Alexandra;
 Hollingworth, Gregory John; Jones, A. Brian; Lindon, Matthew John; Moyes, Christopher Richard; Rogers, Lauren;
 PATENT ASSIGNEE(S): Merck Sharp & Dohme Limited, UK
 SOURCE: PCT Int. Appl., 110 pp.
 CODEN: PIXKD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003080578	A1	20031002	WO 2003-GB1302	20030321
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MR, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, 'AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG				
CA 2479150	AA	20031002	CA 2003-2479150	20030321
EP 1490340	A1	20041229	EP 2003-710014	20030321
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, IL, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
US 2005107388	A1	20050513	US 2003-505358	20030321
JP 2005526798	T2	20050908	JP 2003-578333	20030321
			GB 2002-6876	A 20020322
PRIORITY APPLN. INFO.:				
		WO 2003-GB1302		W 20030321

OTHER SOURCE(S): MARPAT 139:292162
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L4 ANSWER 10 OF 12 CA COPYRIGHT 2005 ACS on STN (Continued)

REFERENCE COUNT: 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003158198	A1	20030821	US 2003-364210	20030211
CA 2476936	AA	20030828	CA 2003-2476936	20030211
WO 2003070247	A1	20030828	WO 2003-US4187	20030211
W: CA, JP, MX				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR				
EP 1478363	A1	20041124	EP 2003-716014	20030211
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
US 2004157849	A1	20040812	US 2003-634678	20030805
US 6933311	B2	20050823		
US 2004209884	A1	20041021	US 2004-842311	20040510
PRIORITY APPLN. INFO.:			US 2002-358220P	P 20020220
			US 2002-79324	A 20020220
			US 2003-364210	A 20030211
			WO 2003-US4187	W 20030211

OTHER SOURCE(S): MARPAT 139:197383
 GI

L4 ANSWER 10 OF 12 CA COPYRIGHT 2005 ACS on STN (Continued)

AB Title compds. I [wherein A, B, D, E are each C or N with the proviso that one or more are N: R1, R2 = independently H, halo, alk(enyl/vnyl), haloalkyl, hydroxyalkyl, cycloalkyl, cycloalkylalkyl, NH2 and derivs., CO2H and derivs., (un)substituted alkyl, alkoxy, carboxy, cycloalkyl, formyl, etc.; R3-R9 = H, alkyl, alkenyl, alkoxy, carboxy, cycloalkyl, formyl, etc.], (un)substituted alkyl; R5, R6 = at each occurrence, independently H, alk(enyl/vnyl), alkoxy, acyloxy, carboxy and derivs., CONH2 and derivs., sulfonyl(alkyl)amino, aryl hetero[aryl/cyclyl], (un)substituted alkyl, or CR5R6 = 3-6 carbocyclic membered ring; R7, R8 = at each occurrence, independently H, alk(enyl/vnyl), cycloalkyl, fluoroalkyl; or NR7R8 = (un)substituted 4-7 heteroaliph. membered ring; X = O, S or =N=CN; Y = aryl, heteroaryl, carbocycl., fused carbocycl group; n = 0, 1, 2, 3; and their pharmaceutically acceptable salts, N-oxides, and prodrugs] were prepared as vanilloid receptor (VR1) modulators, in particular antagonists, for treating conditions or diseases in which pain and/or inflammation predominates. For example, 1-isoquinolin-5-yl-3-(3-phenylpropyl)urea was prepared by reacting isoquinolin-3-carboxylic acid with diphenylphosphoryl azide in toluene at reflux for 1 h through a Curtius rearrangement, followed by addition of 3-phenylpropylamine and reflux for 18 h. I bound to the VR1 receptor with an IC50 < 1 μ M, and in the majority of cases, < 200 nM. I are predominantly VR1 antagonists with a few of them VR1 partial antagonists and VR1 partial agonists. Thus, I and their pharmaceutical compns. are useful for treating pain and/or inflammation. IT 581809-67-8P: 1-Isoquinolin-5-yl-3-[(4-(trifluoromethyl)benzyl)urea
 RL: PAC (Pharmacological activity); RCT (Reactant); SRF (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
 (CA INDEX NAME)

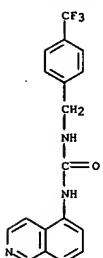
receptor modulators for treating pain and inflammation)

RN 581809-67-8 CA

CN Urea, N-5-isoquinolinyl-N'-(4-(trifluoromethyl)phenyl)methyl]- (9CI)

(CA INDEX NAME)

L4 ANSWER 11 OF 12 CA COPYRIGHT 2005 ACS on STN (Continued)



REFERENCE COUNT: 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 11 OF 12 CA COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 139:197383 CA
 TITLE: Preparation of fused azabicyclic compounds that inhibit vanilloid receptor subtype 1 (VR1)

INVENTOR(S): Lee, Chih-Hung; Bayburt, Erol K.; Didomenico, Stanley;

Drizin, Irene; Gomtsyan, Arthur R.; Koenig, John R.; Perner, Richard J.; Schmidt, Robert G.; Turner, Sean C.; White, Tammy K.; Zheng, Guo Zhu

PATENT ASSIGNEE(S): USA

SOURCE: U.S. Pat. Appl. Publ., 79 pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent

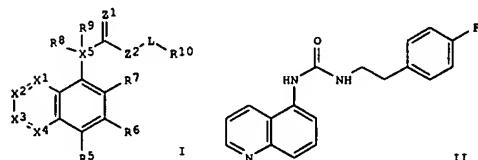
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

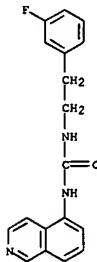
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003158198	A1	20030821	US 2003-364210	20030211
CA 2476936	AA	20030828	CA 2003-2476936	20030211
WO 2003070247	A1	20030828	WO 2003-US4187	20030211
W: CA, JP, MX				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR				
EP 1478363	A1	20041124	EP 2003-716014	20030211
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
US 2004157849	A1	20040812	US 2003-634678	20030805
US 6933311	B2	20050823		
US 2004209884	A1	20041021	US 2004-842311	20040510
PRIORITY APPLN. INFO.:			US 2002-358220P	P 20020220
			US 2002-79324	A 20020220
			US 2003-364210	A 20030211
			WO 2003-US4187	W 20030211

OTHER SOURCE(S): MARPAT 139:197383
 GI



AB Compds. of formula I [X1-X5 = (substituted) N, (substituted) CH; Z1 = O, NH, S; Z2 = bond, NH, O; L = alkylene, cycloalkylene, piperazinediy, etc.; R5-R9 = H, alkyl, alkenyl, alkoxy, carboxy, cycloalkyl, formyl,

L4 ANSWER 11 OF 12 CA COPYRIGHT 2005 ACS on STN (Continued)
 mercapto, etc.; R10 = H, aryl, cycloalkyl, heterocyclyl) are prep'd. as vanilloid receptor subtype 1 (VR1) antagonists that are useful in treating pain, inflammatory thermal hyperalgesia, urinary incontinence and bladder overactivity. Thus, II was prep'd. from 5-aminoisoquinoline and 2-(3-fluorophenyl)ethylamine. The prep'd. compds. were found to be antagonists of VR1 with IC₅₀ of 1 nM to 1000 nM.
 IT 581809-65-6
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of fused azabicyclic compds. as vanilloid receptor 1 inhibitors)
 RN 581809-65-6 CA
 CN Urea, N-[2-(3-fluorophenyl)ethyl]-N'-5-isoquinoliny- (9CI) (CA INDEX NAME)

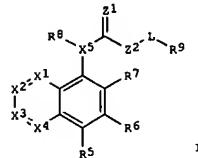


L4 ANSWER 12 OF 12 CA COPYRIGHT 2005 ACS on STN
 ACCESION NUMBER: 139:197382 CA
 TITLE: Preparation of isoquinolines, indoles, and related compounds as antagonists of vanilloid receptor

subtype I (VR1).
 INVENTOR(S): Lee, Chih-Hung; Bayburt, Erol K.; Didomenico, Stanley;
 Drixin, Irene; Gomtayan, Arthur R.; Koenig, John R.; Perner, Richard J.; Schmidt, Robert G.; Turner, Sean C.; White, Tammie K.; Zheng, Guo Zhu
 PATENT ASSIGNEE(S): USA
 SOURCE: U.S. Pat. Appl. Publ., 38 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 3
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003159188	A1	20030821	US 2002-79324	20020220
CA 2476936	AA	20030828	CA 2003-2476936	20030211
WO 2003070247	A1	20030828	WO 2003-US4187	20030211
W: CA, JP, MX RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR EP 1478363	A1	20041124	EP 2003-716014	20030211
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK			US 2002-79324	A 20020220
PRIORITY APPLN. INFO.:			US 2003-364210	A 20030211
			WO 2003-US4187	W 20030211

OTHER SOURCE(S): MARPAT 139:197382
 GI



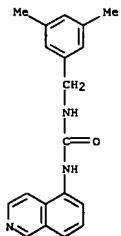
L4 ANSWER 12 OF 12 CA COPYRIGHT 2005 ACS on STN (Continued)
 AB Title compds. [I; X1 = N, CR1; X2 = N, CR2; X3 = N, NR3, CR3; X4 = null, N, CR4; X5 = N, CH2; Z1 = O, NH, S; Z2 = NH, O, L, piperazinylene, alkenylene, alkylenylene, cycloalkylene, (CH2)m(CH2)n, NHO, NHHN;

NNNH; m, n = 1-6; R1, R3, R5, R6, R7 = H, alkenyl, alkoxy, alkoxyalkoxy, alkoxyalkyl, alkoxy carbonyl, alkoxy carbonyl alkyl, A, ACO, ACOA, ACO2, AS, alkenyl, CO2H, ACO2H, cyano, cyanoalkyl, cycloalkyl, cycloalkylalkyl, ethylenedioxy, CHO, ACHO, halocalkoxy, haloalkyl, halocalkylthio, halo, OH, HOA, methylenedioxy, SH, ASH, NO2, (CF3)2(HO)C, NRAS02RB, SO2ORA, SO2RB, NZAZB, (NZAZB)A, (NZAZB)CO, (NZAZB)SO2, ZA, ZB = H, A, ACO, CHO, aryl, aralkyl; R2, R4 = H, alkenyl, AO, alkoxyalkoxy, AOA, AO2C, AO2CA, A, ACO, ACOA, ACO2, AS, alkenyl, CO2H, carboxyalkyl, cyano, cyanoalkyl, cycloalkyl, cycloalkylalkyl, ethylenedioxy, CHO, ACHO, halocalkoxy, haloalkyl, haloalkylthio, halo, OH, HOA, methylenedioxy, SH, HSA, NO2, (CF3)2(HO)C, NRAS02RB, SO2ORA, SO2RB, NZAZB, (NZAZB)alkyl, (NZAZB)ACO, (NZAZB)CO, (NZAZB)SO2, (NZAZB)C(:NH), (NZAZB)C(:NC)NH, (NZAZB)C(:NH)NH; RA = H, A; RB = A, aryl, aralkyl; R8 = null, H, A; R9 = H, aryl; heterocyclyl; A = alkyl; dotted line = optional double bond), were prepared for treating pain, inflammatory thermal hyperalgesia, urinary incontinence and bladder overactivity (no data). Thus, 2,2,2-trichloro-N-isoquinolin-5-ylacetamide, (preparation given)

DBU, and 2-(3-fluorophenyl)ethylamine in acetonitrile were refluxed for 10 h to give 65% N-[2-(3-fluorophenyl)ethyl]-N'-isoquinolin-5-ylurea.

IT 581810-09-55
 RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses) (claimed compound; preparation of isoquinolines, indoles, and related compds.

as antagonists of vanilloid receptor subtype 1)
 RN 581810-09-5 CA
 CN Urea, N-[3,5-dimethylphenyl]methyl]-N'-5-isoquinoliny- (9CI) (CA INDEX NAME)



10/616,579

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FILE 'REGISTRY' ENTERED AT 10:49:33 ON 27 OCT 2005

L1 STRUCTURE uploaded

L2 16 S L1 SAM

L3 260 S L1 FULL

FILE 'CA' ENTERED AT 10:50:04 ON 27 OCT 2005

L4 12 S L3

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STN INTERNATIONAL LOGOFF AT 10:51:26 ON 27 OCT 2005